

ABBREVIATIONS AND ACRONYMS

A

AA: arachidonic acid
 AC: hydrogen cyanide
 ACGIH: American Conference of Governmental Industrial Hygienists
 Ach: acetylcholine
 AChE: acetylcholinesterase
 ADMS: assistant director of medical services
 AEF: American Expeditionary Forces
 AEGL: acute exposure guidance level
 AML: area medical laboratory
 AMN: atropine methylnitrate
 AR: Army Regulation
 ARC: American Red Cross
 ARDS: acute respiratory distress syndrome
 ATCA: 2-aminothiazoline-4-carboxylic acid
 ATNAA: antidote treatment nerve agent autoinjector
 ATP: adenosine triphosphate
 aTSP: active topical skin protectant
 A-V: atrial-ventricular

B

BA: bromoacetone
 BAL: British anti-Lewisite (dimercaprol)
 BALF: bronchoalveolar lavage fluid
 BAS: battalion aid station
 BBC: bromobenzyl cyanide
 BChE: butyrylcholinesterase
 BEF: British Expeditionary Forces
 BMZ: basement membrane zone
 BTX: batrachotoxin
 BZ: 3-quinuclidinyl benzilate

C

CA: bromobenzyl cyanide
 CaE: carboxylesterase
 CAI: chemical accident or incident
 CAIRA: chemical accident or incident response and assistance
 cAMP: adenosine 3',5'-cyclic monophosphate
 CANA: convulsive antidote, nerve agent
 CAS: Chemical Abstracts Service
 CB: chemical-biological
 CBIRF: Chemical/Biological Incident Response Force
 CBR: chemical, biological, and radiological
 CBRN: chemical, biological radiological, and nuclear
 CBRNE: chemical, biological, radiological, nuclear, explosive
 CBRRT: chemical biological rapid response team
 CDC: Centers for Disease Control and Prevention
 CEA: cultured epidermal autograft
 cGMP: current Good Manufacturing Practice
 CHASE (Operation): Cut Holes and Sink 'Em
 ChE: cholinesterase
 CK: cyanogen chloride
 CN⁻: cyanide anion
 CN: chloroacetophenone
 CNO⁻: cyanate
 CNS: central nervous system
 COLPRO: collective protection
 CP EMEDS: collectively protected expeditionary medical support

CPRP: chemical personnel reliability program
 CR: dibenz(*b,f*)(1,4)oxazepine
 CS: *o*-chlorobenzylidene malononitrile
 CSA: The Covenant, the Sword, and the Arm of the Lord
 CSEPP: Chemical Stockpile Emergency Preparedness Program
 CSF: colony-stimulating factor
 CSMSPD: chemical surety medical support program director
 Ct: concentration (C) of agent vapor or aerosol in air multiplied by time (*t*) of exposure
 CWA: chemical warfare agent
 CWC: Chemical Weapons Convention (1993)
 CWS: US Army Chemical Warfare Service

D

DA PAM: Department of the Army pamphlet
 DA: diphenylchloroarsine
 DC: diphenylcyanoarsine
 DCE: defense coordinating element
 DEET: N,N-diethyl-meta-toluamide
 DEPMEDS: deployable medical system
 DFP: diisopropyl phosphorofluoridate
 DHHS: Department of Health and Human Services
 DHP: diisopropylfluorophosphate
 DHS: Department of Homeland Security
 DM: diphenylaminoarsine
 4-DMAP: 4-dimethylaminophenol
 DMS: director of medical services
 DNA: deoxyribonucleic acid
 DoD: Department of Defense
 DOE: Department of Energy
 DOJ: Department of Justice
 DOT: Department of Transportation
 DVA: Department of Veterans Affairs

E

ECG: electrocardiogram
 EDTA: ethylenediaminetetraacetate
 EEG: electroencephalogram
 EKG: electrocardiogram
 EMEDS: expeditionary medical support
 EMS: emergency medical service
 EMT: emergency medical technician
 EOC: emergency operations center
 EPA: Environmental Protection Agency
 Eq: equine
 ER: endoplasmic reticulum
 Er: YAG: erbium: yttrium-aluminum-garnet
 ESF: emergency support function

F

FBI: Federal Bureau of Investigation
 FBS: fetal bovine serum
 FCC: federal coordinating center
 FDA: Food and Drug Administration
 FEMA: Federal Emergency Management Agency
 FHP: force health protection
 FOC: full operational capability
 FRC: forward resuscitation care

G

GA: tabun
GABA(A): gamma-aminobutyric A
GB: sarin
GD: soman
GF: cyclosarin
GK-11: gacyclidine
GM1: monosialotetrahexosylganglioside
GSA: General Services Administration
GSH: glutathione

H

H: mustard
H₂O₂: hydrogen peroxide
H₂S: hydrogen sulfide
HAZMAT: hazardous materials
HAZWOPER: hazardous waste operations and emergency response
HC: hexachloroethane
HCN: hydrogen cyanide
HD: mustard (distilled)
HE: high explosives
HHS: Department of Health and Human Services
HN2: nitrogen mustard
HSS: health service support
Hu PON1: human paraoxonase 1
HWA: Heereswaffenamt

I

ICAM: improved chemical agent monitor
ICG: indocyanine green
ICS: incident command system
IDLH: immediately dangerous to life or health
IgG: immunoglobulin G
IL: interleukin
IM: intramuscular
IMA: installation medical authority
IND: investigational new drug
IOC: initial operational capability
IOT&E: initial operational test and evaluation
IP: intraperitoneal injection
IPE: individual protective ensemble/equipment
IV: intravenous

J

JFO: joint field office
JPEO: joint program executive office
JPEO-CBD: Joint Program Executive Office for Chemical Biological Defense
JPMO: joint product management office
JSGPM: joint service general purpose mask
JSLIST: joint service lightweight integrated suit technology
JSMILT: joint service mask leakage tester
JSPDS: joint service personnel skin decontamination system
JTF: joint task force

K

KCN: potassium cyanide
K_m: a measure of the strength of binding of a substrate to an enzyme

L

LC₅₀: the vapor or aerosol exposure that is lethal to 50% of the exposed population
LD₅₀: median lethal dose
LDPI: laser Doppler perfusion imaging
LHON: Leber hereditary optic neuropathy
LPS: lipopolysaccharide
LSD: lysergic acid diethylamide

M

MAC: multiagency coordination
MANAA: medical aerosolized nerve agent antidote
MCE: maximum credible event
MDMA: 3, 4-methylene-dioxymethylamphetamine
MEDCOM: medical command
MEDEVAC: medical evacuation
MITS: medical identification and treatment systems
MO: medical officer
MOPP: mission-oriented protective posture
MPE: most probable event
MRI: magnetic resonance imaging
MRT: mean residence time
MRT: medical response team
MS C LRIP: milestone C low rate initial production
MT: metric ton
MTF: medical treatment facility
MULO: multipurpose overboot

N

N₂O: nitrogen oxide
N₂O₄: nitrogen tetroxide
NAAG: N-acetyl-aspartyl-glutamate
NaCN: sodium cyanide
NAD⁺: nicotinamide adenine dinucleotide
NaNO₂: sodium nitrite
NATO: North Atlantic Treaty Organization
NBC: nuclear, biological, chemical
NCO: noncommissioned officer
NCS: National Communications System
NDA: new drug application
NDMS: National Disaster Medical System
NF: number facility
NIMS: National Incident Management System
NIOSH: National Institute for Occupational Safety and Health
NMDA: N-methyl D-aspartate
NO: nitric oxide
NO₂: nitrogen dioxide
NORTHCOM: Northern Command
NRP: National Response Plan
NSAID: nonsteroidal antiinflammatory drug
NSP: neurotoxic shellfish poisoning

O

OC: oleoresin capicum
OH: hydroxyl radical
OP: organophosphorus
OPCW: Organization for the Prohibition of Chemical Weapons
OPIDN: organophosphorus ester-induced delayed neurotoxicity
Ops: operations
OSHA: Occupational Safety and Health Administration

P

PADPRP: poly(adenosine diphosphate-ribose) polymerase
 PAF: platelet-aggregating factor
 2-PAM Cl: 2-pralidoxime chloride
 2-PAM: 2-pralidoxime
 PAPP: p-aminopropiophenone
 PARP: poly(ADP-ribose) polymerase
 PATS: protection assessment test system
 PB: pyridostigmine bromide
 PBN: alpha-phenyl-N-tert-butyl-nitron
 PBN: N-tert-butyl-alfa-phenyl-nitron
 PbTx: brevetoxin
 PCP: phencyclidine
 PFIB: perfluoroisobutylene
 pHu: plasma-derived human
 PKC: protein kinase C
 PLA₂: phospholipase A₂
 pMo: plasma-derived mouse
 2-PMPA: 2-pentanedioic acid
 POM: program objective memorandum
 PPE: personal protective equipment
 PR: protective ratio
 PS: chloropicrin
 PTSD: posttraumatic stress disorder
 PTX: palytoxin

R

RADS: reactive airways dysfunction syndrome
 RBC-ChE: red blood cell cholinesterase
 RCA: riot control agent
 RD₅₀: dose required to cause a 50% decrease in respiration
 REM: rapid eye movement
 RH: relative humidity
 rHu BChE: recombinant human butyrylcholinesterase
 RNA: ribonucleic acid
 RPM: respiratory rate, pulse, and motor function
 RSDL: Reactive Skin Decontamination Lotion

S

SCN⁻: thiocyanate
 SE: status epilepticus
 SERPACWA: skin exposure reduction paste against chemical warfare agents
 SMART: special medical augmentation response team
 SNS: strategic national stockpile
 SRBD: seizure-related brain damage
 SS: Schutzstaffel
 START: simple triage and rapid treatment
 STEL: short-term exposure limit
 STM: Sacco triage method
 STX: saxitoxin

T

TBSA: total body surface area
 TEN: toxic epidermal necrosis
 TIC: toxic industrial chemical
 TIM: toxic industrial material
 TNF: tumor necrosis factor
 TRP: transient receptor potential
 TTX: tetrodotoxin
 TWA: time-weighted average

U

UN: United Nations
 USACHPPM: US Army Center for Health Promotion and Preventive Medicine
 USAMRICD: US Army Medical Research Institute of Chemical Defense
 USAMRIID: US Army Medical Research Institute of Infectious Diseases
 USDA: US Department of Agriculture
 USJCOM: US Joint Forces Command
 USMC: US Marine Corps

V

V/Q: ventilation perfusion ratio
 VAC: Vacuum-Assisted Closure Therapy
 VR1: vallinoid receptor subtype 1

W

WBGT: wet-bulb globe temperature
 WMD: weapons of mass destruction

